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Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for

# WYOMING

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A APR 20 1955

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
STATE ENGINEER OF WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

AS OF

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS.

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrblogist in Charge River Forecast Center U. S. Weather Bureau 712 Federal Office Building Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate Rivef District Office, listed below:

Meteorologist in Charge.......Yellowstone River Weather Bureau Airport Station and tributaries Box 1338
Billings, Montana

State of Wyoming

#### FEDERAL-STATE COOPERATIVE

#### SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued

April 9, 1955

Report Prepared
by
George W. Peak
Snow Survey Leader

Soil Conservation Service and State of Wyoming

345 East 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

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State Conservationist
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L. C. Bishop State Engineer of Wyoming Cheyenne, Wyoming Medical Company of Sample Comment

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#### PRELIMINARY WATER SUPPLY OUTLOOK

FOR

WYOMING

April 9, 1955

There has been a little improvement in the water supply outlook over one month ago, but less than average runoff for Wyoming is still indicated by the April 1, snow surveys. Soil storage last fall is below normal as winter came on, and this deficit will be taken from the snow pack before the runoff occurs. The storage of water in Wyoming reservoirs is about 80-85 percent of the 1943-1952 average for April 1. The total of reservoir storage and runoff is expected to be close to the total seasonal supply of 1954.

#### NORTH PLATTE BASIN

The April 1, snow cover on the North Platte above Seminoe reservoir is standing at 83 percent of average, the same percentage given for the March 1, snow pack. The soil moisture tests, that are taken with the snow surveys, indicate that the soil will absorb some of the water content of the snow pack. The soil must reach field capacity before runoff occurs. Assuming normal Spring Precipitation the runoff for this basin is estimated at 77 percent of the 1943-1952 average, or a volume flow of 550,000 acre-feet at Saratoga.

The April 1, active storage in Seminoe, Pathfinder, Alcova and Guernsey reservoirs is 82 percent of the 1943-1952 average.

#### THE GREEN RIVER BASIN

The snow pack in the upper Green River Basin in Wyoming is 78 percent of average, with a large soil moisture deficit beneath the snow. The estimated seasonal runoff at Linwood is 850,000 acre-feet, or 57 percent of the 1,490,000 acre-foot average.

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#### THE SNAKE RIVER BASIN

Above normal precipitation during March has increased the snow pack in the Snake River Vasin above Moran to 90 percent of the average Water Content for April 1.

The basin went into the winter with a soil moisture content of 2.1 inches as compared to the normal amount of 4.4 inches. This soil moisture deficit will reduce the value of the snow pack to about 84 percent of normal before runoff occurs. If Spring precipitation is normal or close to normal, the April - September runoff into Jackson Lake will be 770,000 acre-feet of water. Reservoir storage in Jackson Lake is at 474,000 acre-feet, or about 91 percent of the 1943-1952 average.

The snow cover from Moran to the state line and up through the Greys and Salt River Basins is standing at 84 percent of normal with about the same soil and moisture deficit. The April - September discharge at Heise, Idaho is expected to be 3,220,000 acre-feet, or about 77 percent of the normal amount.

#### THE LOWER YELLOWSTONE RIVER BASIN

The snow cover in the upper regions of the Wind River has improved considerably over the snow survey data of March 1, but it is still only 77 percent of normal. The area in the Popo Agie improved slightly to 88 percent of average, but the snow pack in the regions west of the Big Horn River, in the Owl Creek and Greybull river basins, is only 70 percent of average.

The soil moisture deficit also extends through these areas, so the value of the snow pack will be 5 to 10 percent less when the runoff occurs.

The April through September flow into Boysen Reservoir is expected to be about 647,000 acre-feet or about 60 percent of normal. The percentage is lowered becasue of diversions above the reservoir.

Boysen Reservoir storage is 269,000 acre-feet as of April 1, or about 70 percent of the storage on April 1, 1954.

Buffalo Bill Reservoir contains 134,000 acre-feet, 51 percent of the 1943-1952 average. The snow cover in the Shoshone basin is 76 percent of normal with an expected seasonal runoff of 560,000 acre-feet into the reservoir. This is 70 percent of normal.

#### THE POWDER AND TONGUE RIVER BASINS

Snow surveys in the Big Horns show depths of average and above average water contents for April 1. Precipitation in March was considerably above normal in this area and the heavy storm of April 3-5, is expected to swell the flow with low elevation snow melt. The Tongue River is expected to discharge a seasonal flow of 115,000 acre-feet at Dayton and the Powder River is expected to release 150,000 acre-feet for the season at Arvada.

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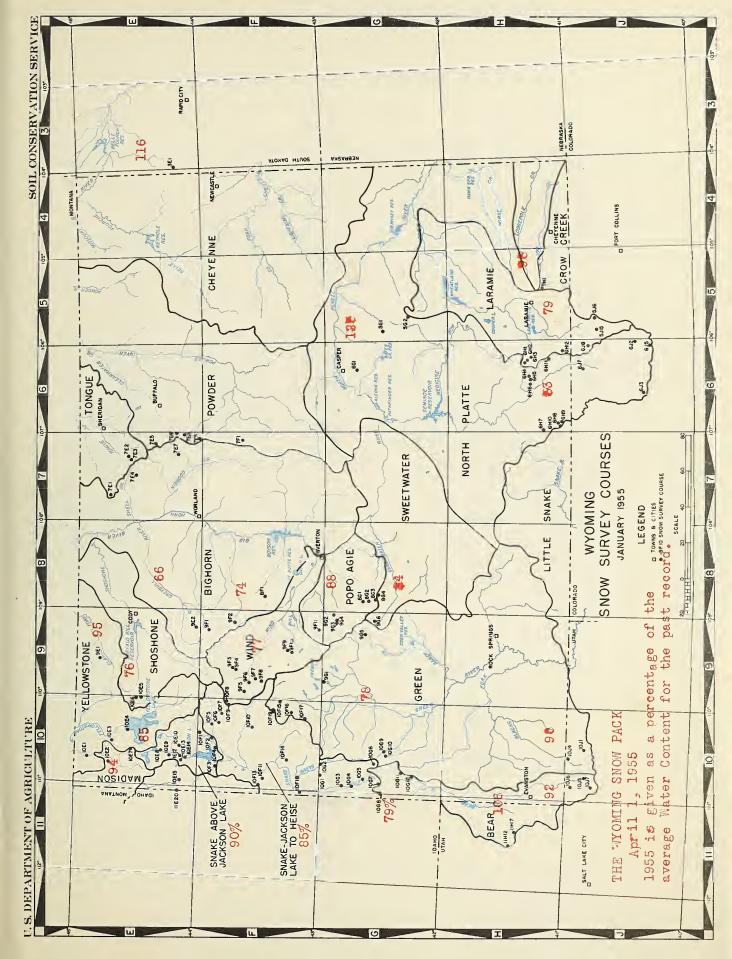
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# INDEX TO WYOMING SNOW COURSES

				Location					Location	
Drainage Basin and Course Name	Wyoming Number	Elev.	Seo.		Range Long.	Record Began	Measuring Dates <sup>a</sup>	Measured By: b	Drainage Basin Wyoming Sac. Range Record Measuring and Course Name Number Elev. Lat. Twp. Long. Began Dates	Mea eure
		v	TOOOT	I RIVER DE	ATNACE				COLORADO RIVER DRAINAGE	
YELLOWSTONE			133001	I RIVER DE	ATTIAGE				GREEN RIVER	
Canyon Lake Camp Lodgeptle Lupine Cresk	10E3 10EL 9E1 10E1	7750 7850 8200 7300	141°13 141°3 141°3	56 N	110°30° 110°24° 106# 110°37°	1938 1937 1940 1938	1,2,3,4,5 1,2,3,4,5 4,5 1,2,3,4,5	4 1,4 2	Dutch Joe R.S. 905 8700 32 37N 10kW 1936 4.5 Mulligan Park 901 8900 17 35N 106W 1936 3.4.5 Kendall R.S. 10F15 7900 23 36N 110W 1936 3.4.5 Locmis Park 10F16 8500 14 37N 111W 1936 3.4.5 Snyder Baedn R.S. 1069 8040 15 29N 11kW 1936 3.4.5	4 4 4 4
WIND RIVER									Shyder Bacin R.S. 1009 80400 15 29N 11LW 1937 4,5 Piney-LaBarge 10310 8820 19 29N 11LW 1937 4,5 East Rim Divide 10P17 7950 32 37N 11LW 1936 1,2,3,4,5	4
Burroughs Creek Dinwoodie Dry Creek Duboir	10F8 9F4 9F10 9F9 9F6	9200 8800 10000 9500 8750	23 15 9 34 27	44.n 43n 38n 4.n 42n	110W 107W 105W 105W	1939 1948 1948 1940	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	4 4 4 4	COLUMBIA RIVER DRAINAGE SNAKE RIVER BASIN (Above Jackson Lake)	
Geyser Creek Little Warm Sheridan R.S. P-Cross Ranch Togwotee Pass	9F7 9F8 9F5 9F3 10F9	8500 9500 7500 8000 9600	12 21, 3 1 29	73N 73N 75N 75N 75N	108# 108# 109# 107# 110#	1948 1948 1939 1910 1936	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4	4445	Aritons. 10F1 6850 3 46N 113W 1919 1,2,3,4 Aster Croek 10E8 7700 44°17' 110°37' 1919 1,2,3,4,5 Base Camp: 10F2 6900 20 16N 113W 1947 1,2,3,4,5 Coulter Croek 10E10 7600 44°09' 110°33' 1919 1,2,3,4,5 Glade Croek 10E13 7200 46°03' 110°14' 1919 1,2,3,4,5	5 5 5 2
POPO AGIE RIVER									10014 10014 10015 10014 10016 110014 1919 1,2,3,4,5 10016 10014 10014 10014 11014 11010 11	5 5
Blue Ridge Robbs Park Mosquito Park R.S. Sawmill Glade South Pass St. Lawrence R.S.	8G2 9G4 8G1 8G3 9F11	9500 10000 9500 3500 9000	25 22 23 3 13 26	31N 2S 2S 31N 30N 1N	101W 3W 3W 101W 101W	1939 1948 1940 1939 1939	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	1 4 4 4 4 4 4	Moren Bay	5 5 5 5
Trout Creek	9G2	8700	5	28	SM	1948	2,3,4,5	4	Afton Ranger Sta. 10G4 6200 30 32R 118W 1936 1,2,3,4,5	1
BIG HORN RIVER Beavers Mill Owl Creek Tensleep R.S. Timber Creek Ranger Creek	9F2 8F1 7E7 9E2 7B4	8900 8700 8300 8800 8800	6 36 30 25 32	43N 43N 49N 47R 53N	102m 101w 86w 103m 88w	1948 1948 1935 1948 1935	2,3,4,5 2,3,4,5 4,5 4,5 4,5	4 4 1,4 1,4	Blackrock   1077   8600	5 4 1,4 1,4 5
Wood River	9F1	8000	28	46n	103W	1939	2,3,4,5	4	Greys Boundary 10F18 5800 33 37R 118W 1936 1,2,3,4,5 Gros Ventre 10F19 8750 36 40N 111W 1948 3,4	1,4
MADISON RIVER Norris Basin Thumb Divide	10E2 10E7	7500 7900	117.05 117.01		110°42° 110°35°	1936 1946	3,4 1,2,3,4,5	2 5	Grover Park Divide 1033 7500 27 33N 118W 1936 1,2,3,4,5 Poison Meadows 1036 8500 29 30N 116W 1948 3,4 Foton Pass #2 10P13 8500 24 41N 118W 1936 1,2,3,4 Turgin Evadows 10P9 9600 29 44N 110W 1936 2,3,4,5 Turgin Meadows 10P5 6930 14 45N 112W 1936 2,3,4,5	1,4 4 1 5
SROSRONE RIVER Sylvan Pass East Entrance	10E5 10E6	7100 7000	12 17	52N 52N	110W 109W	1936 1948	1,2,3,4,5 1,2,3,4,5	2 2	Yellowjacket 10F10 7675 33 42N 112W 1936 3,4,5 Snow King Mount. #1 10F11 7600 4 40W 117W 1949 Semi. Mo. Snow King Mount. #2 10F12 7200 4 40W 117W 1954 Semi. Mo. HEISE TO AMERICAN FALLS	1 4 4
TONGUE RIVER Burgess R.S.	7E1	7900	36	56N	89W	1950	7 l. c	1	Bechler P.S. 11E20 6400 4409, 111°03, 1936 1,2,3,4,5 Grasy Lake 10E15 7255 6 48N 117W 1940 1,2,3,4,5	2
Dome Lake Big Goose	7E3 7E2	8800 7700	11	53N 53N	87 <del>11</del> 8611	1950 1950 1935	3,4,5 3,4,5 4,5	4, 4,	Grasy Lake 10E15 7265 6 1/8N 117W 191/0 1,2,3,4,5	5
POWDER RIVER	7F1	7000	18	43N	8577	1936	4.5	<b>飛遊</b> (2)	Salt River Summit 1008 7 7900	<u></u> <u>1</u> ,
Sour Dough Soldier Park Muddy Pass North Powder	7E6 7E5 7E8 7E9	8500 8700 9700 8500	17 36 11 5	49n 51n 48n 47n	84# 85W 85W 85W	1936 1950 1950 1951	4,5 3,4,5 3,4,5 3,4,5	1 4 1,4 1,4	INDEX TO COLORADO SNOW COURSES  MISSOURI RIVER DRAINAGE	
SWEE TWATER									NORTH FLATTE	
Grannier Meadows Lareen Creek	8GL 9G6	9000	19	30N 30N	100W 103W	1937 1949	2,3,4,5	4	Deadman Hill 5.06 10200 26 10N 75N 1937 3.4.5 Roach 6.08 9800 5 10N 777 1940 2.3.4.5 Ms Intyre 5.115 9100 35 10N 76N 1949 2.3.4.5	4
Bottle Creek Webber Spring	6н8 6н9 6н10	8200 9000 9800	21, 27 29	17'n 17'n 17'n	8577 8571 85W	1936 1936 1936	2,3,4,5 2,3,4,5 2,3,4,5	1,4 1,4 1,4	Park View 612 9200 21 5N 78W 1936 2,3,4,5 Columbine 613 9300 21 5N 82W 1936 2,3,4,5 Willow Cr. Pass 615 9500 1 LN 78W 1938 2,3,4,5 Northgate 617 8500 7 11N 79W 1950 2,3,4,5	
North French Creek North Barrett Cr. 2 Ryan Park #2	6H4 6H5	10200 9400 8400	27 30 ·2	16N 16N 16N	80W 80W 81#	1938 1936 1936	2,3,4,5	1,4 1,4 1,4	INDEX TO SOUTH DAKOTA SNOW COURSES	
Spring Cresk Albany	6H7 6H11	9000 9400	32 18	15N 1LW	8511 7811	1949 1949	2,3,4,5	1,4	MISSOURI RIVER DRAINAGE CHEYENNE RIVER	
Boxelder Casper Mountain		84 <b>50</b> 9000 8700	11 31 16	27 N 30N 32N	7 ध्रा 7 5% 7 5%	1949 1950 1954	2,3,4,5 2,3,4,5 1,2,3,4,5	4 4 4	Upper Spearfish 3E1 6500 21 3N 1E 1944 2,3,4	1
LARAMIE RIVER	4. 4.3								INDEX TO UTAH SNOW COURSES	
Brooklyn Lake Fox Park Libby Lodge #2 Rairpin Turn #2	6H1 6H12 6H3 6H2	10200 9200 8700 9500	11 21 29 24	16N 13N 16N 16N	79n 78n 78n 78n	1936 1936 1936 1936	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	1,4 1 1,4 1,4	COLUMBIA RIVER DRAINAGE	
CROW CREEK	5H1	8700	35	15 N	72₩	1936	2,3,4,5	4	Heed of Bear River 10J5 8600 15 2N 10E 1935 4 Goodman Ranch 10J6 7900 19 3N 10E 1937 4 1937 4 1937 1930 1 18 9E 1951 4.5 Monte Cristo, R.S. 11H12 8960 3 8N 1E 1930 3,4,5 Girl Hollow 11H17 84,00 5 7N 52 1951 3,4,5	
									COLORADO RIVER DRAINAGE  Hole-in-the-Rook 10J1 9150 13 2N 15E 1931 4  Hewinta Ranger Sta. 10J4 9500 33 3N 13E 1930 4	

a. Numerala 1,2,3,4 and 5 refer to January 1, February 1, March 1, April 1, and May 1.

b. Numerale refer to Agency that accures the enow curvey, as follows:

<sup>1.</sup> U. S. Forest Service 2. U. S. National Park Service 3. U. S. Indian Service L. Soil Concervation Service 5. U. S. Bureau of Reclamation

## WYOMING DRAINAGE BASINS-STREAMFLOW FORECASTS

## APRIL 1, 1955

-	aktingen, a vor etter til de til etter killende til e av satt etter återe som en er entigen flytigen flyt flytte flytte etter en enter etter ett	Seasonal S	Stream i	low in T	housands of	Acre Feet
		FOREC		Measure	d Runoff	1943 to
E	ASIN AND TRIBUTARY	April	% of		September	1952
_		September	Ave.	1953	1952	Average
U	PPER YELLO STONE IN YELLOWSTONE PARK					
L	ADISON RIVER		<i>.</i> .			
Y	West Yellowstone (Near) ELLOWSTONE RIVER	181	84%	207	248	216
С	Corwin Springs (at) LARK FORK RIVER	1714	85%	1649	2171	2012
	Chance (at)	527	84%	519	576	629
S	NAKE RIVER BASIN					
S	NAKE RIVER	770	0.457	000	007	010
	Moran (below) Heise, Idaho (near)	770 3220	84% 7 <i>7</i> %	806	993 4363	918 4174
I	OWER YELLOWSTONE BASIN					
W	IND RIVER					
	Riverton (at)	240	42%	239	354	575
В	ROUGEN RIVER (helew)	647	60%	611	884	1079
	Boysen Reservoir (below) Kane (at)	820	54%	798	1276	1518
	St. Xavier (near)	020	0 T/0	atio non non	1286	2290
	5 0, 250 VIOL (11501)				2200	
В	ULL LAKE CREEK					
-	Lenor (near)	145	72%	160	203	200
P	OPO AGIE RIVER Riverton (near)	280	70%	218	450	400
G	REYBULL RIVER	200	10/0	210	400	400
Ĭ	Meeteetse (at)	142	61%	157	278	233
	Basin (near)	41	35%	37	173	116
S	HOSHONE RIVER					
	Buffalo Bill Dam (below)	560	70%	582	695	802
	Byron (at)	340	54%	356	484	628
I	ONGUE RIVER		2 2 2 2 1	0.0	7.04	335
	Dayton (near)	115	100%	96	104	115
	Acme (near)	274	100%	200	239 249	274 282
	Decker, Montana (near)				7. I.O.	202

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## WYOMING DRAINAGE BASINS STREAMFLOW FORECASTS

APRIL 1, 1955

				Thousands of	
	FOREC		1	ed Runoff	1943 to
BASIN AND TRIBUTARY	April	% of		- September	1952
	September	Ave.	1953	1952	Average
POWDER RIVER					
Arvada (at)	150	105%	76	125	143
Moorhead, Montana (at)	can gair wall		40-40	235	285
Locate, Montana (at)	eto do est	***	- Care Care	303	361
MIDDLE FORK POWDER					
Kaycee (near)	62	90%	27	36	69
NORTH FORK POWDER					
Mayworth (near)	20	100%	14	17	20
CLEAR CREEK					
Buffalo (near)	46	115%	27	35	40
Arvada (near)	141	112%	72	100	126
NORTH PLATTE BASIN					
O CHARACTA COLOR ASSESSMENT OF TAXABLE					
S.ÆETWATER RIVER	0.77	B2 1	4.0	300	0.0
Alcova (at)	63	73%	42	100	86
NORTH PLATTE RIVER	550	es not	400	1057	<b>610</b>
Saratoga (at)	550	77%	428	1053	718
MEDICINE BOW	0.5	ord	60	7.4.4	110
Hanna (near)	87	75%	60	144	116
LARAMIE		201	0.4	3.04	103
Jelm (at)	71	70%	64	124	101
Lookout (at)	53	60%	28	96	89
IIDDA GOLOANO DAGIN					
UPPER COLORADO BASIN					
GREEN RIVER					
Linwood (at)	850	57%	1669	1651	1490
DIIIWOOd (au)	000	01/0	1000	1001	2300
GREAT BASIN					
The second section of the section of th					
BEAR RIVER					
Harer, Idaho	175	51%	100	184	345

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COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS
Summary of Snow Survey Data by Watersheds as of April 1, 1955

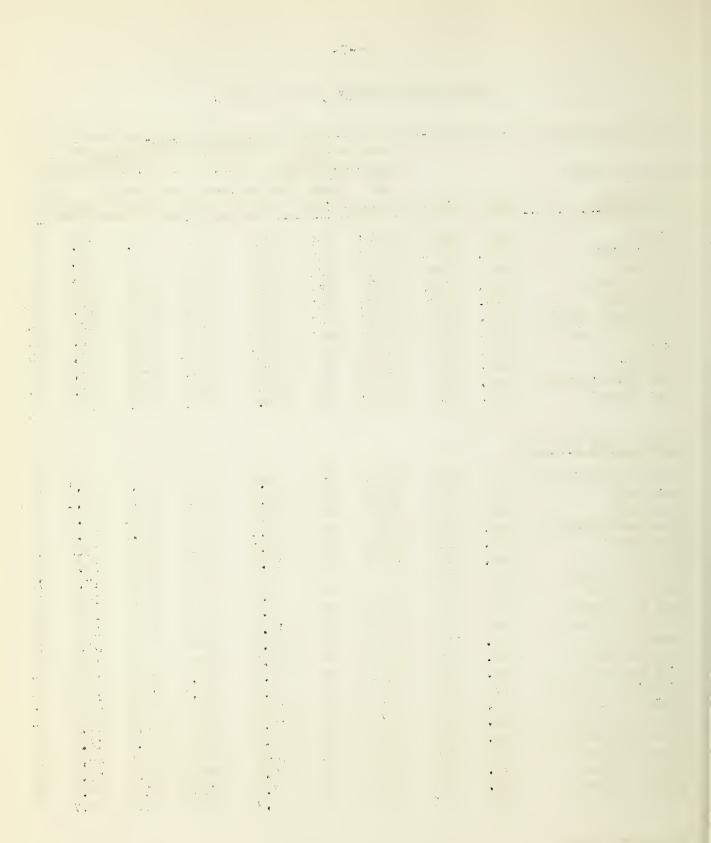
Summary of Snow Survey Data b	y watersh	eds as of	April	1, 1955	
BASIN	No. of COURSES	YEARS OF		SNOW WATER EXI AS PERCENTAGE 1953	
	AVERAGED	RECORD	1954	1900	AVERTOR
Snake River Basin Above Jackson Lake	11	8-35	78%	88%	90%
Jackson Lake to Heise	20	6-19	76%	94%	85%
Upper Yellowstone in Yellowstone Park	7	8-20	76%	97%	85%
Madison River in Yellowstone Park	2	10-18	91%	98%	94%
Lower Yellowstone - Clark Fork	1	17	82%	103%	95%
Lower Yellowstone - Shoshone River	2	6-17	74%	94%	76%
Lower Yellowstone - Wind River	14	5-19	71%	89%	77%
Lower Yellowstone - Popo Agie River	6	6-18	67%	113%	88%
Lower Yellowstone - Owl Creek	2	5	eltas sem tipo	94%	74%
Lower Yellowstone - Greybull River	2	6-15	54%	95%	66%
Lower Yellowstone - Tongue River	3	4-19	61%	87%	81%
Lower Yellowstone - Shell Creek	2	4-17	95%	108%	102%
Lower Yellowstone - Nowood Creek	4	4-18	98%	102%	97%
Lower Yellowstone - Clear Creek on the	e Powder I 2	River 5-18	86%	167%	126%
Lower Yellowstone - Crazy Woman Creek	on the Po	owder Riv	er		
v	3	4=18	84%	125%	105%
North Platte Above Seminoe Reservoir	14	6-19	111%	106%	83%
North Platte - Sweetwater River	4	5-18	65%	109%	84%
Laramie River Basin	10	5-19	91%	91%	79%
Pole Mountain	1	19	130%	300%	98%
North Laramie Mountains	2	5	118%	198%	128%
Missouri-Cheyenne River	1	11	105%	99%	116%
Upper Colorado - Green River	13	4-19	68%	90%	78%

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WYOMING SNOW SURVEYS, APRIL 1, 1955

			SNOW COVER MEASUREMENTS								
			******************	195		Past Record					
DRAINAGE BASIN			Date		Water		tiga de la companya		ears		
and			of		Content	Water C	ontent(1	(n.)	of		
SNOW COURSE	State	Elev.	Survey	(Inc)	$(In_n)$	1954	1953	Ave.R	lecord		
Arizona	Wyo.	6850	3/31	52	17.1	20.9	19.8	17.8	35		
Astor Creek	Wyo.	7700	3/31	92	30,6	38,0	33.0	31.4	35		
Base Camp*	Wyo.	6900	3/30	56	18.1	22,8	18.4	20.1	8		
Coulter Creek	Wyo.	7600	3/29	64	20.7	28.5	23.9	22.4	35		
Glade Creek	Wyo.	7200	3/31	64	20.3	24.8	22.4	23.0	35		
Huckleberry Divide	Wyo.	7300	3/31	56	17.9	21.0	20.0	19.6	35		
Lewis Lake Divide	Wyo.	7900	3/31	106	38.7	52.3	45.1	42.5	35		
Moran	Wyo.	6800	3/31	36	10.7	14.5	12.7	11.7	35		
Moran Bay	Wyo.	680 <b>0</b>	3/31	54	17.3	23.1	24.2	21.2	35		
Snake River Station	Wyo.	6780	3/31	59	19.3	24.1	21.1	20.0	35		
Thumb Divide	wyo.	7900	3/31	66	20.8	28.0	21.1	26.5	8		
JACKSON LAKE TO HEIS	Ε										
Afton Ranger Station	Wyos	6200	3/28	19	5.5	3.4	0.0	2.1	19		
Base Camp	Wyo.	6900	3/30	56	18.1	22.8	18.4	20.1	8		
Blackrock	Wyo	8600	3/30	61	18.2	24.4	20.2	22.3	19		
Blind Bull Summit	Wyo.	8750	4/1	82	27.1	41,7	30.2	34.3	7		
Bryan Flat	Wyo,	6250	3/30	30	8.1	14.5	12.5	10.9	19		
CCC Camp	Wyo.	7500	3/28	40	10.8	12,9	10.9	11.9	19		
Cottonwood Lake	Wyo.	7500	7,20		NR	18.1	16.1	17.5	19		
Deadman Ranch	Wyo.	6534	4/1	30	9.1	13,9	10.1	10.7	18		
East Rim Divide	Wyo.	7950	3/30	33	9.1	13.4	10.4	12.0	19		
Four Mile Meadows	Wyon	7770	3/30	42	10.6	14.6	12.5	13.3	19		
Grassy Lake	Wyo.	7265	4/1	91	34.9	35.6	35.8	34.0	15		
Greys Boundary	Wyo.	5800	3/29	35	11.1	11.9	9.3	11,4	19		
Gros Ventre Summit	Wyo.	8750	3/26	42	9.8	13.9	10.6	13.5	7		
Grover Park Divide	Wyo.	7500	3/29	33	9.3	13.4	10.6	11.6	19		
Poison Meadows	Wyo.	850 <b>0</b>	5/27	82	22.5	33.5	25.0	30.5	7		
Salt River Summit	Wyo.	7900	3/28	44	12.1	16.3	13.0	17.0	7		
Snow King Mountain	Wyo.	7600	3/31	36	9.3	14.3	10.8	13.4	6		
Teton Pass No. 2	Wyo.	8500	3/29	91	34.0	37.4	36.9	39.2	10		
Togwotee Pass	Wyo.	9600	3/30	83	27.7	34.7	27.3	29.1	19		
Turpin Meadows	Wyo.	6930	3/30	32	7.9	12.6	11.1	10.8	19		
Yellow Jacket	Wyo.	7675	3/30	22	4.9	7.9	3.2	6.7	18		

<sup>\*</sup> Adjacent Basin



WYONING SNOW SURVEYS, APRIL 1, 1955

			SNOW COVER MEASUREMENTS								
			-	195			st Rec	ord			
DRAINAGE BASIN			Date	Snow		T.C.	200 1100		ars		
and			of			Water Co	ontent(				
SNOW COURSE	State	Elev.	Survey		(In.)	1954	1953	Ave.Re	cord		
UPPER YELLOWSTONE	IN YELLOW	STONE PA	RK								
									_		
Canyon	Wyo.	7750	4/1	52	14.1	17.8	14.3	16.9	9		
Cooke City	Mont.	7400	3/31	28	6.7	10.9	8.8	8.1	18		
Crevice Mountain	Mont.	8400 7850	4 /2	7.0	NR	9.8	9.2	10.1	20 17		
Lake Camp Lupine Creek	Wyo.	7300 7300	4/1	36	8,8	12.4 13.1	9.5 9.3	10.9 10.4	16		
Sylvan Pass	Wyo.	7100	3/31 3/31	44 41	12.2	15.0	13.5	14.5	17		
Thumb Divide	Wyo.	7900	3/31	66	20.8	28.0	21.1	26.5	8		
THAMB DIVIGO	,, y O •	1500	0/01	00	20.0	20.0	O TET	20.0	O		
MADISON RIVER IN YE	ELLOWS TON	E PARK									
			,								
Norris Basin	Wyo.	7500	3/31	35	9.5	11.6	NR	9.9	10		
West Yellowstone	Mont.	6700	4/1	37	10.7	10.7	10.9	11.6	18		
LOWER YELLOWSTONE •	- SHOSHON	E RIVER									
East Entrance	Wyo.	7000	3/31	35	9.8	13.4	8.9	13.3	6		
Sylvan Pass	Wyo.	7100	3/31	41	11.3	15.0	13.5	14.5	17		
			7			<b></b>					
LOWER YELLOWS TONE .	- WIND RI	VER							,		
Brooks Lake	Wyo.	9200	3/24	74	22.1	28.5	28.1	25.0	19		
Burroughs Creek	Wyo.	8800	3/26	37	9.7	16.5	14.8	17.4	6		
Dinwoody	Wyo.	10000	3/29	3 <b>7</b>	10.5	13.9	12.7	15.4	5		
Dry Creek	Wyo.	9500	3/29	19	4.7	7.6	6.2	8.3	5		
DuNoir	Wyo.	8750	3/25	28	7.7	9.9	8.2	10.0	14		
Geyser Creek	Wyo.	8 <b>50</b> 0	3/25	28	7.6	9.9	7.5	10.2	6		
Hobbs Park	Wyo.	10000	4/2	48	15.1	23.7	14.2	22.1	6		
Little Warm	Wyo.	9500	3/25	54	14,4	20.1	18.7	21.9	6		
Mosquito R. S.	Wyo.	9500	4/2	24	7.7	12.3	6.8	9.7	10		
St. Lawrence R.S.	Wyo.	9000	3/31	23	6.6	9.0	5.9	8.1	11		
Sheridan R. S.	Wyo.	7500	3/24	32	8.7	11.4	8.7	7.5	19		
T-Cross Ranch	Wyo.	8000	3/26	24	5.9	9.5	7.0	7.5	14		
Togwotee Pass	√√yo.	9600	3/30	83	27.7	34.7	27.3	29.1	19		
Trout Creek	Wyo.	84.00	4/2	18	5.8	10.3	7.4	7.6	6		

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				was seen	

WYOMING SNOW SURVEYS, APRIL 1, 1955

		<del></del>	0 - <del>3 </del>	SMOU	W COVER I	JEASUREM	ENTS		
				195		Past Record			
DRAINAGE BASIN			Date	Snow	Water				Years
and			of		Content				of
SNOV COURSE	State	Elev.	Survey	(In.)	(In.)	1954	1953	Ave.	Record
LOWER YELLOWSTONE -	- POPO AG	IE RIVER							
D7 D: 1	777	0500	4 /3	70	30 A	16. 4	10.1	10 C	3.5
Blue Ridge Grannier Meadows*	Wyo.	9500 9000	4/1	39 <b>47</b>	12.4 14.4	17.4 20.8	10.1 12.1	12.6 14.3	
Hobbs Park	Wyo.	10000	$\frac{4}{1}$ $\frac{4}{2}$	48	15.1	23.7	14.2	22.1	
Mosquito R.S.	Wyo.	9500	$\frac{4}{2}$	24	7.7	12.3	6.8	9.7	
Sawmill Glade	Wyo.	8500	$\frac{4}{1}$	26	7.9	11.0	8.1	8.3	15
South Pass	Wyo.	9000	4/1	48	14.6	21.8	12.3	14.6	
	,,		-/ -						
LOWER YELLO.ISTONE -	- GREYBUI	L RIVER							
Timber Creek	Wyo.	8800	4/2	14	3.5	6.9	4.3	6.0	6
Wood River	Wyo.	8000	$\frac{4}{2}$	16	4.1	7.3	3.7	5.5	
***************************************	,	0000	-/ -	10			901		
LOWER YELLOWS TONE -	· CLARK'S	FORK							
Lodge Pole	₩yo.	8200	3/30	34	10.4	12.7	10.1	11.0	17
			,						
NORTH PLATTE ABOVE	SEMIMOE	RESERVUIR							
Albany*	Wyo.	9400	4/3	33	9.7	9.7	12.4	15.1	6
Bottle Creek	Wyo.	8200	3/28	45	14.1	13.9	13.3	14.8	
Cameron Pass	Colo.	10300	4/1	58	18.9	22.0	18.8	21.7	
Columbine Lodge	Colo.	9300	3/31	63	22.3	15.0	23.7	23.2	19
Fox Park*	Wyo.	9200	4/1	15	4.0	6.3	4.6	8,2	19
North Barrett Cr.	Wyo.	9400	3/29	56	18.8	17.7	13,6	19.9	19
North Gate	Colo.	8500	4/1	21	4.8	5.9	3.8	6.1	5
North French Cr.	Wyo.	10200	3/29	68	24.1	27.0	23.6	30.0	17
Old Battle	ŵyo.	9800	3/28	72	25.3	25.9	26.0	32.4	19
Park View	Colo.	9200	3/31	33	7.7	7.1	5.8	10.3	19
Ryan Park	Wyo.	8400	3/29	39	11.7	10.2	6.4	11.4	19
Spring Creek	Wyo.	9000	3/30	46	14.7	13.6	13.6	19.0	6
Webber Spring	Wyo.	9000	3/28	54	16.7	15.5	16.1	19.6	19
Willow Creek Pass*	Colo.	9500	3/31	43	11.5	11.7	10.5	13.2	17
NORTH PLATTE - SWEE	TWATER R	IVER							
Dutah Inst	THE .	0500	7/00	10	0.7	33.0	0.0	0.0	3.0
Dutch Joe* Grannier Mondows	Wyo.	8700	3/26	40	8.1			8.6	16
Grannier Meadows Larson Creek	Wyo.	8800	4/1	47	14.4		12.1	14.3	
South Pass	Wyo.	9000 9040	3/26	30 48	5.4 14.6		6.5	13.3	5 15
204011 4 455	Wyo.	3040	4/1	48	74.0	21.8	12.3	14.6	19

<sup>\*</sup> Adjacent Basin

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	* * *	2.45		4 1	85	1/4	P. Devil Co	and of	and Committee and The
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-	1.4	No. 24	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•	. 545	4 1/2	1,:With	4 2 2	orby by
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-10-WYOMING SNOW SURVEYS, APRIL 1, 1955

	ieronationalite auriterorat romignos de ondignospan rene		SNOW COVER MEASUREMENTS							
				195		Pa	st Reco			
DRAINAGE BASIN			Date		Water		/ 7		Years	
and SNOW COURSE	State	Elev.	of Survey		Content (In.)	1954	1953		of Record	
BENOW COOKE	3 ta te	FIGA	Survey	(TEO)	(1110)	1904	1900	Ave.	Record	
TO STOLE A STOLEN	25515 C	3555 A31	######################################	NDD 0.77	mars					
LOWER YELLOWSTONE	- CLEAR C	REEK ON	THE POW	DER RIV	ER					
Soldier Park	Wyo.	8700			NR	5.1	2.6	4.6	5	
Sour Dough	₩yo.	8500	3/30	35	7.7	9.0	4.6	6.1	18	
9	Ü		•							
LOWER YELLOWSTONE	- CRAZY W	OMAN CRE	EEK ON T	E POIL	ER RIVER					
Mudder Poor	W	9700	3/29	36	8.0	9.4	8.0	8.8	5	
Muddy Pass North Powder	Wyo.	8500	5/25	30	NR	7.0	5.8	7.5	4	
Sour Dough	Wyo.	8500	3/30	35	7.7	9.0	4.6	6.1	18	
2042 2046.:	, - •		-,							
LOWER YELLOWSTONE	- OWL CRE	EK								
	***	0000	1 /0	0.5	4.0	MD	C 7	F 0	_	
Beavers Mill	Wyo.	8900 8700	4/8 4/8	25 28	4.9 5.5	NR NR	6.3 4.7	7.8 6.3	5 5	
Owl Creek	Wyo.	8700	4/0	20	9,5	1111	401	0.00	J	
LOWER YELLOWSTONE	- TONGUE	RIVER								
Big Goose	Wyo.	7700	4/8	31	6,4	5.5	4.3	4.4	19	
Burgess R. S.	Wyo.	7900	4/8	39	9.2	20.0	13.6	14.8	5	
Dome Lake	Wyo •	8800			NR	11.0	7,2	7.8	4	
LOWER YELLOWSTONE	_ CHPII C	י דידיע								
TOWER TELLOWSTONE	a SHELL O	TENK								
Dome Lake*	Wyo.	8800			NR	11.0	7.2	7.8	4	
Ranger Creek	Wyo.	8800	4/1	33	8.4	8.8	7.8	8.2	17	
LOWER YELLOWSTONE	- MOVIOOD	CREEK								
Muddy Pass	Wyo.	9700	3/29	36	8.0	9.4	8.0	8.8	5	
Ranger Creek*	Wyo.	8800	4/1	33	8.4	8.8	7.8	8.2		
North Powder	Wyo.	8500	-/ -		NR	7.0	5.8	7.5		
Ten Sleep	Wyo.	8300	4/1	34	6.8	5,5	6.9	7.0	18	
	-									

<sup>\*</sup> Adjacent Basin

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## WYOMING SNOW SURVEYS, APRIL 1, 1955

		·								
				SNOV 1955	V COVER N		INTS St Reco	and		
DRAINAGE BASIN			Date	Snow		r e	SU Rece		ears	
and			of		Content	Water Co	ntent(		of	
SNO / COURSE	State	Elev.	Survey	(In.)	(In.)	1954	1953	Ave.Re	ecord	
NORTH PLATTE - LARAM	IE RIVE	R								
Albany	Wyo.	9400	4/3	33	9.7	9.7	12.4	15.1	6	
Brooklyn Lake	Wyo.	10200	4/1	53	18.7	22.6	24.7	25.1	19	
Deadman Hill	Colo.		3/30	52	13.7	14.2	10.7	15.0	18	
Fox Park Hairpin Turn	Wyo.	9200 9500	4/1	15 29	4.0 8.5	6.3 9.6	4.6 11.8	8.2 11.9	19 19	
LaBonte	Wyo.	8450	$\frac{4}{1}$	33	9.9	6.4	0.0	6.7	6	
Libby Lodge	Wyo.	8700	4/1	26	7.1	9.1	10.2	10.1	19	
McIntyre	Colo.		,		NR	9.2	NS	12.4	5	
Pole Mountain #2*	Wyo.	8700	3/31	18	4.8	3.7	1.6	5.0	19	
Roach	Colo.	9800	4/3	45	15.7	19.3	12.6	19.0	15	
PLATTE - POLE MOUNTA	IN									
Pole Mountain	Wyo.	8700	3/31	18	4.8	3.7	1.6	4.9	19	
	v		·							
NORTH PLATTE - NORTH	LARAMI	E MOUNTA	LINS		•					
Boxelder	Wyo.	9000	3/29	33	8.4	9.1	9.2	7.6	5	
LaBonte	Wyo.	8450	4/1	33	9.9	6.4	0.0	6.7	6	
MISSOURI - CHEYENNE	RIVER									
Upper Spearfish	S.Dak.	6500	3/30	31	8.5	8.1	8.6	7.3	11	
*			·							
UPPER COLORADO - GRE	EN RIVE	R								
Big Park	Wyo.	8700	3/28	56	16.6	23.7	18.0	23.9	4	
Blind Bull	Wyo.	8750	4/1	82	27.1	41.7	30.2	34.3	7	
Deadman Ranch*	Wyo.	6534	4/1	30	9.1	13.9	10.1	10.7	18	
Dutch Joe	wyo.	8700	3/26	40	8.1	11.9	8.0	8.6	16	
East Rim Divide	Wyo.	7950	3/30	33	9.1	13.4	10.4	12.0	19	
Gros Ventre Summit Kelly R. S.	Wyo.	8750	3/26 3/28	42	9.8	13.9 20.4	10.6 15.9	13.5 20.4	7 4	
Kendall R. S.	Wyo.	8200 7900	3/26	52 34	15.3 8.4	11.4	10.1	11.5	18	
Loomis Park	Wyo.	8500	3/30.	50	15.1	22.0	17.8	17.5	19	
Mulligan Park	Wyo.	8900	3/31	27	6.6	12.3	11.9	11.1	19	
Piney LaBarge	wyo.	8820	3/27	59	16.4	22.9	15.4	18.4	18	
Poison Meadows	Wyo.	8500	3/27	82	22.5	33.5	25.0	30.5	7	
Snyder Basin R. S.	Wyo.	8040	3/27	45	12.2	18.4	13,3	13.9	18	



# STATUS OF RESERVOIR STORAGE Wyoming and South Dakota April 1, 1955

BASIN		USABLE	ACITI	TE STOR	1GE - 10	000s ACR		
and		CAPACITY					10 Yr.	
STREAM	RESERVOIR	1000s AF	1955	1954	1953	1952	1943-52	:
Snake River	Jackson	847.0	473.8	401	442	520	519.0	
North Platte	Seminoe*	981.8	257.1	235.7	565.3	536.1	409.6	
North Platte	Pathfinder*	1011.0	476.0	871.2	872.4	942.0	593.5	
North Platte	Alcova**	190.5	171.8	187.3	155.7	159.0	96.8	
North Platte	Guernsey	39.8	32.0	19.3	35.6	40.0	42.2	
North Platte	Southerland	185.0	60.0	49.0	52.0	58.0		
North Platte	Kingsley	1995.0	1192.0	1571.0	179.60	1799.0		
North Platte	Lake Alice &							
	Minatare	68.0	14.1	39.8	24.8	28.5		
Kansas Basin	Box Butte	31.6		18.2	22.4	30.0	23.9	
Kansas Basin	Bonny	39.9	38.3	39.9	28.9	33.4	152.4	
Kansas Basin	Swanson Lake	116.1	35.7	22.5				
Kansas Basin	Enders	36.0	34.9		25.7	30.3	19.8	
Kansas Basin	Harry Strunk	33.9	29.8	29.2		32.1	27.3	
Kansas Basin	Harlan County		90.5					
Kansas Basin	Cedar Bluff	176.8	85.7			141.5	71.2	
						•	•	
Laramie River	Wheatland	95.0	0.5	12.0	26.1	53.9	40.1	
Belle Fourche	Belle Fourche	185.2	68.0	120,4	65.6	177.8	131.6	
Belle Fourche	Keyhole	190.3	15.0	8.6		1.3	1.3	
5 4 2 5 6 2 5 6 2 5 6 2 5	110 9 110 20	10000	1000	0,0	1000	240		
Shoshone River	Buffalo Bill	439.8	133.8	147.8	154.8	202.3	263.9	
	D 011 2 0 2 2 2 2 2 2	200 %	20040	22,00		2020	2000	
Wind River	Boysen	758.0	268.7	382.0	495.0	152.4	152.4	
Wind River	Pilot Butte	31.6	26.4	17.7	23.5	13.6	16.4	
Wind River	Bull Lake	152.0	62.2	69.3	56.0	61.2	56.4	
		2000	0242	00.00	0000	0	004	
Cheyenne River	Angostura	92.0	448.5	32.7	50.6	41.0	41.0	
Cheyenne River	Deerfield	15.1	10.9	15.1		15.1	13.8	
		70 9 7	_0 00	7041	-000			
Grand River	Shadehill	84.0	77.8	82.7	84.2		mg min mo ma mp	
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Green River	Big Sandy	38.3	9,8	5.4				
0. 0011 111 01	DIE Dallay	00.0	0 8 0	001		_		

<sup>\*</sup> Seminoe, January 1943, August 1953, Useable Capacity 993,200 Acre Feet.

<sup>\*</sup> Pathfinder, January 1943, August 1953, Useable Capacity 1,040,500 Acre Feet.

<sup>\*\*</sup> Alcova, downstream from Seminoe and Pathfinder and containing 160,170 Acre Feet of inactive storage that is unavailable to the Kendrick Project.

<sup>\*\*\*</sup> Some for Less.

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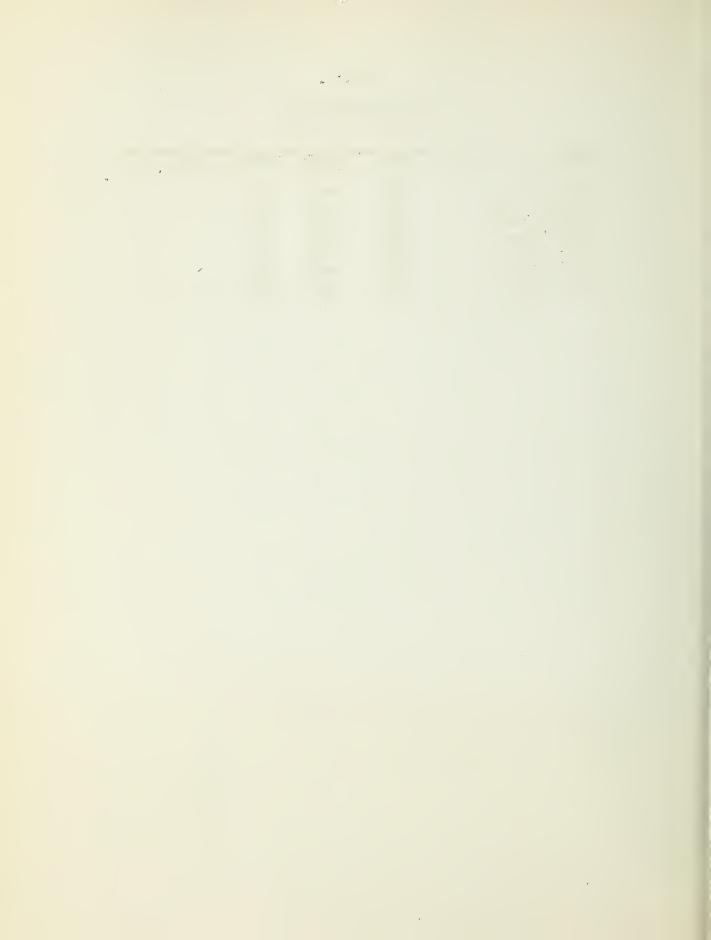
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5 . T.

-13VALLEY PRECIPITATION
In Percent of Normal

Basin	Jan.	Febr.	Mar.	Apr.
Wind River	25%	265%	75%	
	•	•	,	
Shoshone River	15%	195%	105%	
Big Horn River	25%	220%	75%	
Powder River	60%	170%	90%	
North Platte	100%	95%	105%	
Laramie River	90%	90%	85%	
Snake River	82%	86%	120%	



The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

#### STATE

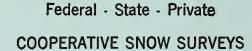
State Engineer of Wyoming

### FEDERAL

- U. S. Department of Agriculture Forest Service
- V. S. Department of Commerce Weather Bureau
- U. S. Department of the Interior Bureau of Reclamation National Park Service Geological Survey

### PRIVATE

Wheatland Irrigation District



Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"